

ASHRAE

THIN-AIR BULLETIN

American Society of Heating, Refrigeration, and Air Conditioning Engineers NM Chapter Region IX Albuquerque, NM - April. 2011

April Meeting

WHEN: Tuesday April 19. 2011 at 11:45 am
COST: \$20 ASHRAE Members \$25 Non Members
WHERE: Pappadeaux Seafood Kitchen
5011 Pan American West Fwy NE
Albuquerque, NM

RSVP to Charlie Scoggin by Friday April 15th.
Email: scoggin@nationalheat.com

Speaker Topic:

“Methods of Effective Room Air Distribution”

Overview:

In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved.

First, we need to understand the rules:

LEED: Many are not aware of some significant changes that have resulted in air distribution, IAQ and Comfort in the 2009 version. And I am on the committee writing the 2012 version.

Thermal Comfort: Determining optimum occupant comfort strategies. ASHRAE Standard 55 has been revised.

Acoustics: Accurately predicting end use environments. A new classroom acoustical requirement needs to be understood.

IAQ: The changing face of ASHRAE Standard 62.1, and upcoming developments.

With the goal of saving energy over the 90.1 baseline (Overhead VAV), many architects are challenging the mechanical engineer to come up with alternate systems that will meet this goal. Displacement Ventilation (DV), Underfloor Air Distribution (UFAD) and Chilled Beams all have a potential to save energy, and meet these needs. I will briefly cover pros and cons of all 4 methods of air delivery:

- Overhead air distribution
- DV (Displacement Ventilation)
- Underfloor Air Distribution (UFAD)
- Chilled Beams and the DOAS Fan Box

Speaker:

DAN INT-HOUT III, Chief Engineer Krueger, Richardson, Tx.

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President's Message

ASHRAE Members,

As our ASHRAE year gets close to an end we have two great meetings still to come. Please be sure and join us for both of these so we can finish our year off on a high attendance note. Keep in mind that our May meeting will be an evening meeting and we will have our students there to present their science projects. Our chapter will be presenting these winners with a scholarship award at this meeting and your attendance would be greatly appreciated to show our support. There will be information coming out for our summer golf tournament which will be at Sandia Golf Club, keep an eye out for that and turn in your registration ASAP. We will also be looking for hole/drink sponsors, last year we had a record turnout for sponsors and we hope to beat that again this year.

Our chapter put on a spring tech session last month which had a descent turnout, for those who were able to attend we thank you and appreciate your positive feedback. We hope next year to have a larger turnout and remember, it is a great way to get your PDH's. If you have thoughts on future subjects for our tech session please let us know so we can make plans to accommodate. I want to thank Allen Anaya for all his effort in putting this together and thank all the presenters who took time out of their busy schedules to help us put this on.

We look forward to seeing you at this month's lunch meeting and thank you for your continued support of your local ASHRAE chapter.

J.R. Sunderman

President NM ASHRAE Chapter 2010-2011

Membership:

Don't forget to promote ASHRAE and Benefits of ASHRAE Membership with your co-workers and customers.

Thanks,
Allen Anaya
allen@wmcarroll.com
cell: 505-385-7338

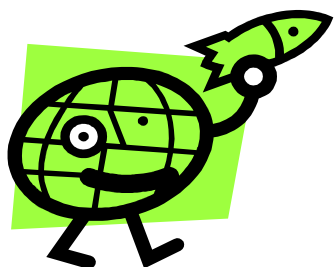
Congratulations to Dr. Dick Hayter -2011 Recipient of the Andrew T. Boggs Service Award

Please join the New Mexico Chapter in congratulating Dr. Dick Hayter of the Kansas City Chapter who will be the 2011 recipient of the prestigious Andrew T. Boggs Service Award which he will be presented with at the plenary session of the 2011 ASHRAE annual conference in Montreal Quebec, during the plenary session.

Dr. Hayter currently serves as the Associate dean for external affairs, College of Engineering and Professor of engineering at Kansas State University.

The Andrew T. Boggs Service Award, was established in 1986 to recognize a past Distinguished Service Award Recipient for continuing, unselfish and distinguished service to the Society.

Dr. Dick Hayter will join an elite group of Kansas City Chapter awards winners of the Andrew T. Boggs awards who include Larry Staples who won the award in June of 2009. Dr. Hayter was nominated by Mr. Jim Berger of Burns and McDonnell. Dr. Hayter and Mr. Staples are past Directors and Regional Chairmen of ASHRAE Region IX.



www.newmexicoashrae.org

From the History Books

MARCH 2001

Chapter Officers were:

President:	Tom Watters
President-elect:	Jim Asperger
Secretary:	Mike Dunavant
Treasurer:	David Graham



On March 19, 1991, the monthly meeting speaker was Robin Ramsey who spoke about Ventilation Engineering and the phenomenon of airflows around buildings. The 10-foot rule regarding exhaust ducts was shown to be not acceptable and that more technical evaluation must be done to adequately locate exhaust and intake ductwork. Special cases such as complexes of buildings, geography, etc. were reviewed. These design considerations apply to employee safety and product contamination and not to environmental concerns.

The New Mexico Chapter of ASHRAE participated in the Architectural Trade Show in Albuquerque. The Chapter had a booth as well as conducting seminars on evaporative cooling, 1989 model energy code and refrigeration. Speakers included Mr. John Noble, Mr. Harold Trujillo and Jim Martin.

April Meeting

Speaker Bio:

DAN INT-HOUT III, Chief Engineer Krueger, Richardson, Tx.

Dan Int-Hout, Chief Engineer, Krueger, is responsible for the presentation of technical data and advanced application engineering for the Grilles, Registers and Diffusers, as well as the VAV air terminals, produced by Krueger.

Dan has been in the Air Distribution research and design business since 1973, and has a Masters in Business Management from Central Michigan Univ., and a Bachelor in Biology & Physics from Denison University.

Dan has written over 40 technical papers and articles on VAV system performance, acoustics, air diffusion, controls and occupant comfort. He was recently Chairman of both ASHRAE Technical and Standards Committees on Thermal Comfort, is a past Chairman of several other related ASHRAE Technical and Standards Committees, as well as ASHRAE Standards, Technical Activities Committee (TAC). & Environmental Health Committees. He received the ASHRAE Distinguished Service Award in 1993 and the Exceptional Service award in 2007. Dan is currently the Chairman of the ARI committee on Applied Acoustics (885) and Chair of ISO 205 US Panel on Thermal Comfort. Dan was installed as an ASHRAE Fellow at the Long Beach meeting in 2007, and is an ASHRAE Distinguished Lecturer. Dan was nominated to Chair the TRG7 Committee to rewrite the Underfloor Air Distribution Guide, at the Chicago ASHRAE meeting in 2009. Dan is a member of the USGBC TAG on Indoor Environmental Quality.

2011 NM CHAPTER GOLF TOURNAMENT

The ASHRAE golf tournament is just 3 ½ months away. Our annual tournament will be returning to Sandia on July 29th. Please send registration form (in next Thin-Air and on Website Soon) and fees to Joseph Higham @ jhigham@nswnm.com





**Ground Source Heat Pump Systems:
Putting the Earth to Work for You**
April 21, 2011
1:00 – 4:00 P.M. EDT

Hear from leading experts on how HVAC system and ground characteristics affect ground heat exchanger design, how to enhance ground source heating design system efficiency, and how to avoid design and operations pitfalls. Get the solutions to these topics and more by participating in this free webcast sponsored by **ClimateMaster, Mammoth, Taco, the International Ground Source Heat Pump Association, and the ASHRAE Foundation.**

This **free** webcast is brought to you by the ASHRAE Chapter Technology Transfer Committee.

How to Participate

- You may host a webcast site for your colleagues.
- You may register to view with others at a site near you.
- You may register to view the Webcast on your PC.

PDH Credits

Three (3) Professional Development Hours or three (3) AIA Learning Units may be awarded to viewers who complete the “**Participant Reaction Form**” online by **May 5, 2011.**

About the Presenters (Visit www.ashrae.org/GHPWebcast for complete details)

- **Lynn G. Bellenger, P.E.**
ASHRAE President 2010-11
Partner | Pathfinder Engineers & Architects | Rochester, NY
- **Kirk Mescher, P.E., LEED® AP**
Principal | CM Engineering, Inc. | Columbia, MO
- **Mick Schwedler, P.E., LEED® AP**
Manager, Applications Engineering | Trane Company | La Crosse, WI
- **Jeff Spidler, Ph.D., P.E.**
Professor | Oklahoma State University | Stillwater, OK

Registration

Online registration begins March 21, 2011 at www.ashrae.org/GHPWebcast. There is no fee for registration. If you have questions, call 678-539-1200 or email ashrae-webcast@ashrae.org.





ASHRAE
CHAPTER/REGIONAL TECHNOLOGY AWARD APPLICATION
SHORT FORM

(Revised January 2011)

INTRODUCTION:

*This Short Form has been developed to stimulate more participation in chapter and regional competition. **This form is not intended to replace the full Society Technology Award Application form.** Regional winners using the short form will be required to complete the full Technology Award Application form before their applications can be forwarded for Society Competition. (This form does not require extensive narrative, plans or photographs.)*

INSTRUCTIONS:

- A. The individual submitting the Technology Award Application must be a current member of ASHRAE who had a significant role in the design or development of the project.
- B. Complete the "Short Form" and use it as the cover page.
- C. Provide a system schematic/diagram not larger than 11" x 17" in size. In addition, attach a brief narrative (maximum of 2 pages). The narrative should include the gross and net building areas applicable to the project, a description of the major building areas (i.e., operating rooms, laboratories, computer rooms, industrial processes, offices, warehouses) and a brief discussion regarding the following five criteria (if a criterion is not applicable, state accordingly):
 - Energy Efficiency
 - Indoor Air Quality
 - Innovation
 - Operation & Maintenance
 - Cost Effectiveness
 - Environmental Impact
- D. Submit your schematic, brief narrative, and completed form to your Chapter Technology Committee Chapter (CTTC) Chair for judging at the chapter level in accordance with their instructions.
- E. First place winners in each category from chapter competition will be submitted by the CTTC Chapter Chair to the CTTC Regional Vice Chair for judging in the Regional Technology Awards competition. At the discretion of the CTTC Regional Vice Chair, this may require completion of the full Society Technology Award Application form if the chapter submission was done on the Short Form Application.

The CTTC Regional Vice Chair will invite first place winners in each category from regional competition to submit them for judging in the Society level Technology Awards competition. The regional winners will be given the opportunity to incorporate new information or otherwise improve their submittal before submitting it to the society level competition (e.g., by addressing comments from regional judges). At the discretion of the judging panels at the chapter and regional competitions, more than one first place winner may be awarded in each category.

For the regional competition, submit the number of copies requested by the Regional CTTC Vice Chair. The CTTC Regional Vice Chair may require entries into the regional competition to be done on the full Society Technology Award Application form. In any case, all submissions to the Society level competition must be done on the full Society Technology Award Application form.

- F. It is highly recommended that each entrant confirm by letter (and retain a copy for record) to the owner that the owner has granted permission to submit this project to competition.

NOTE: ASHRAE Technology Awards are the HVAC&R industry's most prestigious honor for efficient energy use in buildings and environmental system performance. While the awards do not certify responsible charge or professional license status, they do recognize outstanding design innovation and successful implementation.

CHAPTER/REGIONAL TECHNOLOGY AWARD - SHORT FORM

1. Category (Check one and indicate New or Existing, if applicable)

- | | |
|----------------------------------------------------------------|-------------------------------------------------------------------|
| <input type="checkbox"/> Commercial Buildings | <input type="checkbox"/> New or <input type="checkbox"/> Existing |
| Institutional Buildings: | |
| <input type="checkbox"/> Educational Facilities | <input type="checkbox"/> New or <input type="checkbox"/> Existing |
| <input type="checkbox"/> Other Institutional | <input type="checkbox"/> New or <input type="checkbox"/> Existing |
| <input type="checkbox"/> Health Care Facilities | <input type="checkbox"/> New or <input type="checkbox"/> Existing |
| <input type="checkbox"/> Industrial Facilities or Processes | <input type="checkbox"/> New or <input type="checkbox"/> Existing |
| <input type="checkbox"/> Public Assembly | <input type="checkbox"/> New or <input type="checkbox"/> Existing |
| <input type="checkbox"/> Residential (Single and Multi-Family) | |

2. Name of Building or Project:

City/State:

3. Project Description:

Project Study/Design Period:

Has the project been completed? Yes No

If YES, date completed:

If NO, scheduled date of completion (or other explanation):

4. Entrant (ASHRAE member with significant role in project) If multiple entrants, all must be listed.

a. Name:

Last

First

Middle

Membership Number:

Chapter:

Region:

b. Address (including country):

City

State/Province

Zip/Country Code

c. Telephone: Office

d. E-mail address:

e. Company:

f. Member's Role in Project:

g. Member's Signature:

5. Engineer of Record:

By affixing my signature above, I certify that the information contained in this application is accurate to the best of my knowledge. In addition, I certify that I have discussed this entry with the owner and have received permission from the owner to submit this project to the ASHRAE Technology Awards Competition.